

Product datasheet for **RG205345**

SV2B (NM_014848) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SV2B (NM_014848) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SV2B
Synonyms:	HsT19680
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG205345 representing NM_014848
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGACTACAAGTATCAGGACAATTATGGGGCTATGCTCCCAGTGATGGCTATTACCGCGCAATG
AGTCCAACCCAGAAGAAGATGCACAGAGTGATGTCAACGAAGGCCATGATGAGGAAGACGAGATCTATGA
GGCGAGTACCAGGGTATCCCTCACCCAGATGATGTCAAGGCCAAGCAGGCCAAGATGGCGCCCTCCAGA
ATGGACAGCCTTCGGGGCCAGACAGACCTGATGGCTGAGAGGCTGGAAGATGAGGAGCAGTTGGCCATC
AGTACGAGACCATCATGGATGAGTGTGGCCATGGCCGCTTCCAGTGGATCCTCTTTTTCTGCTTGGGTTT
GGCCCTGATGGCCGATGGGGTGAAGTGTTCGTGGTGAGTTTTGCCCTGCCAGTGCAGAGAAGGACATG
TGTCTGCCAGTCCAAAAAGGAATGCTAGGGATGATAGTCTACTTGGGAATGATGGCGGGCGCCTTCA
TCCTGGGAGGCCGCTGGCTGATAAGCTGGGAAGGAAGCGAGTCTCAGCATGTCTCTGGCCGTCATGCCTC
CTTCGCCTCCCTCTTCTTCTCGTGCAGGGATATGGAGCCTTCTCTTCTGCCGACTCATCTCAGGCATC
GGTATTGGGGTGTCTACCGATTGTTTTGCCTATTTTTCTGAATTCCTGTCTCGGAGAAAGCGAGGAG
AACACCTCAGTTGGCTGGGCATCTTCTGGATGACTGGGGCCTGTACGCATCTGCCATGGCCTGGAGCAT
CATCCCACACTATGGCTGGGGCTTACAGCATGGGGACCAATTACCACTTCCATAGCTGGAGAGTGTGTC
ATCGTCTGTGCTCTGCCCTGCACCGTGTCCATGGTGGCCCTGAAGTTCATGCCAGAGAGCCCAAGTTTC
TGCTAGAGATGGGCAAACATGATGAAGCCTGGATGATTCTCAAGCAAGTCCATGACACCAACATGAGAGC
TAAGGGGACCCAGAGAAAGTGTTCACGGTTTCCAACATCAAACTCCCAAGCAAATGGATGAATTCATT
GAGATCCAAAGTCAACAGGAACCTGGTACCAGCGCTGGCTGGTCAGATTCAAGACCATTTTCAAGCAGG
TCTGGGATAATGCCCTGTACTGTGTGATGGGGCCCTACAGAATGAATACACTGATTCTGGCCGTGGTTG
GTTTGCCATGGCATTAGTTACTATGGACTGACAGTTTTGGTTTTCTGATGATGATCCGCTATTTTCAAGAT
GAAGAATACAAGTCTAAAATGAAGTGTTTTTGGTGAGCATGTGTACGGCGCCACAATCAACTTACGA
TGGAAAATCAGATCCACCAACATGGGAACTTGTGAATGATAAGTTCACAAGAATGTACTTTAAACATGT
ACTCTTTGAGGACACATTTCTTTGACGAGTGCTATTTTGAAGACGTAACATCAACAGATACCTACTTCAA
AATTGTACCATTGAATCAACCATCTTTACAACACAGACCTCTACGAGCACAAGTTCATCAACTGTCGGT
TTATCAACTCCACCTTCTGGAGCAGAAGGAGGGCTGCCACATGGACTTGGAGCAAGATAATGACTTCT
GATTTACCTCGTCAGCTTCTGGGCAGCCTGTCTGTCTTACCCGGGAACATCATTTCTGCCCTGCTCATG
GATAGAATTGGAAGGCTCAAGATGATTGGTGGCTCCATGCTAATCTCTGCAGTCTGCTGCTTCTTCTGT
TTTTTGGCAACAGTGAGTCTGCAATGATCGGCTGGCAGTCCCTGTCTGTGGGACAAGCATTGCAGCCTG
GAATGCTCTGGATGTGATCACAGTGGAGCTGTATCCCACCAACCAGAGAGCAACAGCCTTCGGCATTCTC
AATGGATTATGCAAAATTTGGCGCCATCCTGGGAAACACCATCTTTGCTTCTTTTGGGATAACCAAAG
TGGTCCCATCCTTCTGGCTGCTTCTCTGGTTGGGGTGGCCTGATTGCCCTTCGACTGCCAGAGAC
TCGAGAACAGGTCTGATG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205345 representing NM_014848
 Red=Cloning site Green=Tags(s)

```
MDDYKYQDNYYGGYAPSDGYRRGNESNPEEDAQSDVTEGHDEEDEIYEGEYQGIPHPDDVKAKQAKMAPSR
MDSL RQQTDLMAERLEDEEQLAHQYETIMDECGHGRFQWILFFVLGLALMADGVEVFFVVSFALPSAEKDM
CLSSSSKKGMLGMIYYLGMAGAFILGGLADKLGRKRVLMSLAVNASFASLSSFVQGYGAF LFCRLISGI
GIGGALPIVFAYFSEFLSREKRGEHL SWLGIFWMTGGLYASAMAWSIIPHYGWGFSMGTYHFHHSWRV FV
IVCALPCTVSMVALKFMPE SPRFLLEMKGHDEAWMILKQVHDTNMRAGTPEKVF TVSNIKTPKQ MDEFI
EIQSSTGTWYQRWLVRFKTIFKQVWDNALYCVMPYRMTLILAVVWFAMAFSYYGLTVWFPMIRYFQD
EEYKSKMKVFFGEHVYGATINFTMENQIHQHGKLVNDKFTRMYFKHVL FEDTFFDECYFEDVTSTDTYFK
NCTIESTIFYNTDLYEHKF INCRFINSTFLEQKEGCHMDLEQDNDFLIYLVSFLGSLVLP GNIISALLM
DRIGRLKMIGSMLISAVCCFFLFFGNSESAMIGWQCLFCGTSIAAWNALDVITVELYPTNQRATAFGIL
NGLCKFGAILGNTIFASFVGITKVVPI LLAASLVGGGLIALRLPETREQVLM
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014848

ORF Size: 2049 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_014848.2](#)

RefSeq Size: 5311 bp

RefSeq ORF: 2052 bp

Locus ID: 9899

UniProt ID: [Q7L112](#)

Cytogenetics: 15q26.1

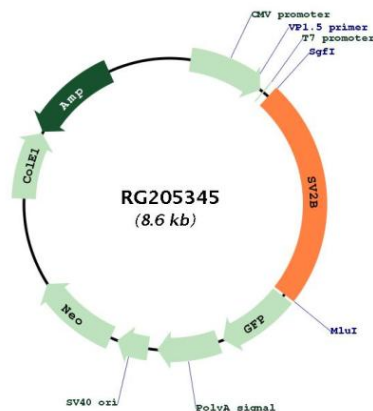
Domains: sugar_tr

Protein Families: Secreted Protein, Transmembrane

Protein Pathways: ECM-receptor interaction

Gene Summary: This gene encodes a member of the synaptic vesicle proteins 2 (SV2) family and major facilitator superfamily of proteins. This protein and other members of the family are localized to synaptic vesicles and may function in the regulation of vesicle trafficking and exocytosis. Studies in mice suggest that the encoded protein may act as a protein receptor for botulinum neurotoxin E in neurons, and that this protein may be important for the integrity of the glomerular filtration barrier. This gene shows reduced expression in areas of synaptic loss in the hippocampus of human temporal lobe epilepsy patients. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RG205345